

21. The technique of claim 14 further including the initial steps of generating the set of nonlinear expressor functions by:

calculating values representative of a pre-selected Hamiltonian function;  
calculating harmonic amplitudes for the Hamiltonian function;  
generating an order function from the Hamiltonian;  
function measuring entrainment states of the order function; and  
modulating the order function using the entrainment states to yield the expressor function.

22. The technique of claim 13 wherein the active signal processing comprises the step of interferometric enhancement of the output pattern of the arrayed information structure.

23. The technique of claim 13 wherein the active signal processing comprises the step of mapping the output pattern of the arrayed information structure to coordinates on a viral diffusion curve using fractal filtering.

24. The technique of claim 23 wherein the mapped coordinates are non-linearly filtered.

25. The technique of claim 13 wherein the arrayed information structure is a microarray.

**COMMENTS**

In response to the Office Action dated July 3, 2001, Applicant has amended the specification to include the claim of priority as identified in the Utility Patent Application Transmittal and has deleted claims 3-5 and submitted herewith new claims 6-14.

It is Applicant's position that the newly submitted claims should not be subject to rejection under 35 U.S.C. 101 as such claims are not drawn to identical subject matter as claimed in the parent application (the '511 patent). Specifically, the proposed claims cover different embodiments of the current invention as well as techniques for the generation of signals and the use thereof for determining the effectiveness of a therapy or to quantitate a biological indicator such as viral load rather than claims that are directed to identical subject matter to that claimed in the '511 patent. Applicant respectfully requests that the proposed claims be allowed as they are supported by the specification of the current application as well as the co-pending applications incorporated by reference and the teachings of the proposed claims are not found in the prior art whether considered singly or in combination.

If the Examiner believes that a telephone call with Applicant would expedite the prosecution of the current case, he is encouraged to contact the undersigned.

Respectfully submitted,



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I hereby certify that this correspondence is being mailed to the Assistant Commissioner for Patents, Washington, DC 20231 via First Class Mail on December 28, 2001 by Carl Kukkonen.

